AUTHOR INDEX

A

Accolla, R. S., Jotterand-Bellomo, M., Scarpellino, L., Maffei, A., Carra, G., and Guardiola, J. *alr-1*, a newly found locus on mouse chromosome 16 encoding a *trans*-acting activator factor for MHC class II gene expression. 369

Aderem, A. A., Cohen, D. S., Wright, S. D., and Cohn, Z. A. Bacterial lipopolysaccharides prime macrophages for enhanced release of arachidonic acid metabolites. 165

Ager, L. L. *See* Chen, Ager, Gartland, and Cooper.

Agnello, V., and Barnes, J. L. Human rheumatoid factor crossidiotypes. I. WA and BLA are heat-labile conformational antigens requiring both heavy and light chains. 1809

Alagon, A., Possani, L. D., Smart, J., and Schleuning, W.-D. Helodermatine, a kallikrein-like, hypotensive enzyme from the venom of *Heloderma horridum horridum* (Mexican beaded lizard). 1835

Albert, J. D. *See* Tracey, Lowry, Beutler, Cerami, Albert, and Shires.

Albino, A. P., Houghton, A. N., Eisinger, M., Lee, J. S., Kantor, R. R. S., Oliff, A. I., and Old, L. J. Class II histocompatibility antigen expression in human melanocytes transformed by Harvey murine sarcoma virus (Ha-MSV) and Kirsten MSV retroviruses. 1710

Alderete, J. F. *See* Peterson, Baseman, and Alderete.

Aley, S. B., Bates, M. D., Tam, J. P., and Hollingdale, M. R. Synthetic peptides from the circumsporozoite proteins of *Plasmodium falciparum* and *Plasmodium knowlesi* recognize the human hepatoma cell line HepG2-A16 in vitro. 1915

Alonso, D. R. *See* Hariri, Alonso, Hajjar, Coletti, and Weksler.

Althage, A. *See* Zinkernagel, Haenseler, Leist, Cerny, Hengartner, and Althage.

Altieri, D. C., and Mannucci, P. M. Thromboxane generation by human monocytes enhances platelet function. 1815

Amador, R. *See* Lyons, Amador, Petito, Nagashima, Weinreb, and Zabriskie.

Ameisen, J.-C. *See* Capron, Jouault, Prin, Joseph, Ameisen, Butterworth, Papin, Kusnierz, and Capron.

Anderson, D. C. *See* Marlin, Morton, Anderson, and Springer.

Anderson, S. L. *See* Rubin, Anderson, Sullivan, Williamson, Carswell, and Old.

André-Schwartz, J. *See* Naparstek, André-Schwartz, Manser, Wysocki, Breitman, Stollar, Gefter, and Schwartz.

Arant, S. E., Griffin, J. A., and Koopman, W. J. V_H gene expression is restricted in anti-IgG antibodies from MRL autoimmune mice. 1284

Arlin, Z. A. *See* Pelicci, Knowles, Arlin, Wieczorek, Luciw, Dina, Basilico, and Dalla-Favera.

Arp, B. *See* Storb, Pinkert, Arp, Engler, Gollahon, Manz, Brady, and Brinster.

Atassi, B. *See* Inaba, Schuler, Witmer, Valinsky, Atassi, and Steinman.

Austin, R. K. *See* Howell, Austin, Kelleher, Nepom, and Kagnoff.

B

Baker, T. J. *See* Giulian, Baker, Shih, and Lachman.

Baldacci, P., Transy, C., Cochet, M., Penit, C., Israel, A., and Kourilsky, P. A *trans*-acting mechanism represses the expression of the major transplantation antigens in mouse hybrid thymoma cell lines. 677

Ballard, D. W. *See* Kupper, Ballard, Chua, McGuire, Flood, Horowitz, Langdon, Lightfoot, and Gubler.

Bandiera, A. *See* Portnoï, Freitas, Holmberg, Bandiera, and Coutinho.

Bandyopadhyay, S., Perussia, B., Trinchieri, G., Miller, D. S., and Starr, S. E. Requirement for HLA-DR$^+$ accessory cells in natural killing of cytomegalovirus-infected fibroblasts. 180

Barbier, E. *See* Primi, Barbier, Drapier, and Cazenave.

Barnes, J. L. *See* Agnello and Barnes.

Barsumian, E. L. *See* Kikutani, Suemura, Owaki, Nakamura, Sato, Yamasaki, Barsumian, Hardy, and Kishimoto.

Bartocci, A., Pollard, J. W., and Stanley, E. R. Regulation of colony-stimulating factor 1 during pregnancy. 956

Bartram, C. R., Janssen, J. W. G., Becher, R., de Klein, A., and Grosveld, G. Persistance of chronic myelocytic leukemia despite deletion of rearranged *bcr/c-abl* sequences in blast crisis. 1389

Baseman, J. B. *See* Peterson, Baseman, and Alderete.

Basilico, C. *See* Pelicci, Knowles, Arlin, Wieczorek, Luciw, Dina, Basilico, and Dalla-Favera.

Basten, A. *See* Britton, Hellqvist, Basten, and Inglis.

Bates, M. D. *See* Aley, Bates, Tam, and Hollingdale.

Baum, L. L. *See* Kuta and Baum.

Beachey, E. H. *See* Dale and Beachey.

Becher, R. *See* Bartram, Janssen, Becher, de Klein, and Grosveld.

Behr, S. R., and Kraemer, F. B. Effects of activation of lipoprotein lipase secretion by macrophages. Evidence for autoregulation. 1362

Belin, D. *See* Collart, Belin, Vassalli, de Kossodo, and Vassalli.

Benacerraf, B. *See* HayGlass, Benacerraf, and Sy.

Benchimol, S. *See* Smith, McCulloch, and Benchimol.

Benditt, E. P. *See* Meek and Benditt.

Benn, S. *See* Folks, Powell, Lightfoote, Koenig, Fauci, Benn, Rabson, Daugherty, Gendelman, Hoggan, Venkatesan, and Martin.
Berkower, I. *See* Cease, Berkower, York-Jolley, and Berzofsky.
—, *See* Cease, Buckenmeyer, Berkower, York-Jolley, and Berzofsky.
Berzofsky, J. A. *See* Cease, Berkower, York-Jolley, and Berzofsky.
—, *See* Cease, Buckenmeyer, Berkower, York-Jolley, and Berzofsky.
—, *See* Good, Berzofsky, Maloy, Hayashi, Fujii, Hockmeyer, and Miller.
Berzofsky, J. *See* Finnegan, Smith, Smith, Berzofsky, Sachs, and Hodes.
Beutler, B., Tkacencko, V., Milsark, I., Krochin, N., and Cerami, A. Effect of γ interferon on cachectin expression by mononuclear phagocytes. Reversal of the *lps*^{d} (endotoxin resistance) phenotype. 1791
—, *See* Tracey, Lowry, Beutler, Cerami, Albert, and Shires.
Bevilacqua, M. P. *See* Cotran, Gimbrone, Bevilacqua, Mendrick, and Pober.
Biron, C. A. *See* Like, Biron, Weringer, Byman, Sroczynski, and Guberski.
Bjorndahl, J. M. *See* Hara, Jung, Bjorndahl, and Fu.
Blackwell, J. M. *See* Wozencraft, Sayers, and Blackwell.
Blake, M. S. *See* Gotschlich, Blake, Koomey, Seiff, and Derman.
—, *See* Lytton and Blake.
—, *See* Rice, Vayo, Tam, and Blake.
Blake, M. *See* Fillit, McCarty, and Blake.
Bluestein, H. G. *See* Pischel, Bluestein, and Woods.
Bollum, F. J. *See* Greiner, Goldschneider, Komschlies, Medlock, Bollum, and Schultz.
Bona, C. A. *See* Gascoigne, Waters, Elliott, Victor-Kobrin, Goodnow, Davis, and Bona.
Bonaccio, E. T. *See* Wong, Kennedy, Bonaccio, Wilson, Klickstein, Weis, and Fearon.
Bono, C. *See* Giacoletto, Sant, Bono, Gorka, O'Sullivan, Quaranta, and Schwartz.
Bontrop, R. E. *See* Schreuder, Tilanus, Bontrop, Bruining, Giphart, van Rood, and de Vries.
Bradley, W. A. *See* Kurzrock, Rohde, Quesada, Gianturco, Bradley, Sherwin, and Gutterman.
Brady, W. *See* Storb, Pinkert, Arp, Engler, Gollahon, Manz, Brady, and Brinster.
Breitman, L. *See* Naparstek, André-Schwartz, Manser, Wysocki, Breitman, Stollar, Gefter, and Schwartz.
Brinster, R. L. *See* Storb, Pinkert, Arp, Engler, Gollahon, Manz, Brady, and Brinster.
Britton, W. J., Hellqvist, L., Basten, A., and Inglis, A. S. Immunoreactivity of a 70 kD protein purified from *Mycobacterium bovis* Bacillus Calmette-Guerin by monoclonal antibody affinity chromatography. 695
Bronkhorst, A. M. *See* Kast, Bronkhorst, de Waal, and Melief.
Brown, S. E. *See* Thanavala, Brown, Howard, Roitt, and Steward.
Brownlee, M. *See* Vlassara, Brownlee, and Cerami.
Bruining, G. J. *See* Schreuder, Tilanus, Bontrop, Bruining, Giphart, van Rood, and de Vries.
Brunet, J.-F. *See* Luciani, Brunet, Suzan, Denizot, and Golstein.
Buckenmeyer, G. *See* Cease, Buckenmeyer, Berkower, York-Jolley, and Berzofsky.
Burns, J. C. *See* Leung, Geha, Newburger, Burns, Fiers, Lapierre, and Pober.
Bushkin, Y., Posnett, D. N., Pernis, B., and Wang, C. Y. A new HLA-linked T cell membrane molecule, related to the β chain of the clonotypic receptor, is associated with T3. 458
Bussel, J. B. *See* Clarkson, Kimberly, Valinsky, Witmer, Bussel, Nachman, and Unkeless.
Butterworth, A. E. *See* Capron, Jouault, Prin, Joseph, Ameisen, Butterworth, Papin, Kusnierz, and Capron.
—, *See* Khalife, Capron, Capron, Grzych, Butterworth, Dunne, and Ouma.
Buurman, W. A. *See* Groenenwegen, de Ley, Jeunhomme, and Buurman.
Byman, K. *See* Like, Biron, Weringer, Byman, Sroczynski, and Guberski.
Bystryn, J.-C. *See* Sison-Fonacier and Bystryn.

C

Calman, A. F., and Peterlin, B. M. Expression of T cell receptor genes in human B cells. 1940
Cameron, P. M., Limjuco, G. A., Chin, J., Silberstein, L., and Schmidt, J. A. Purification to homogeneity and amino acid sequence analysis of two anionic species of human interleukin 1. 237
Capron, A. *See* Capron, Jouault, Prin, Joseph, Ameisen, Butterworth, Papin, Kusnierz, and Capron.
—, *See* Khalife, Capron, Capron, Grzych, Butterworth, Dunne, and Ouma.
Capron, M., Jouault, T., Prin, L., Joseph, M., Ameisen, J.-C., Butterworth, A. E., Papin, J.-P., Kusnierz, J.-P., and Capron, A. Functional study of a monoclonal antibody to IgE Fc receptor (FcεR2) of eosinophils, platelets, and macrophages. 72
—, *See* Khalife, Capron, Capron, Grzych, Butterworth, Dunne, and Ouma.
Carra, G. *See* Accolla, Jotterand-Bellomo, Scarpellino, Maffei, Carra, and Guardiola.
Carroll, W. L., Lowder, J. N., Streifer, R., Warnke, R., Levy, S., and Levy, R. Idiotype variant cell populations in patients with B cell lymphoma. 1566
Carson, D. A. *See* Radoux, Chen, Sorge, and Carson.
—, *See* Shlomchik, Nemazee, Sato, Van Snick, Carson, and Weigert.
Carswell, E. A. *See* Rubin, Anderson, Sullivan, Williamson, Carswell, and Old.
Carter, D. M. *See* Gottlieb, Lifshitz, Fu, Staiano-Coico, Wang, and Carter.
Cazenave, P.-A. *See* Primi and Cazenave.
—, *See* Primi, Barbier, Drapier, and Cazenave.
Cease, K. B., Berkower, I., York-Jolley, J., and Berzofsky, J. A. T cell clones specific for an amphipathic α-helical region of sperm whale myoglobin show differing fine specificities for synthetic peptides. A multiview/single structure interpretation of immunodominance. 1779
—, **Buckenmeyer, G., Berkower, I., York-Jolley, J., and Berzofsky, J. A.** Immunologically relevant peptide antigen exists on the presenting cell in a manner accessible to macromolecules in solution. 1440

Cerami, A. *See* Beutler, Tkacencko, Milsark, Krochin, and Cerami.
—, *See* Tracey, Lowry, Beutler, Cerami, Albert, and Shires.
—, *See* Vlassara, Brownlee, and Cerami.
Ceredig, R. *See* McKinnon and Ceredig.
Cerny, A. *See* Zinkernagel, Haenseler, Leist, Cerny, Hengartner, and Althage.
Chaganti, R. S. K. *See* Rettig, Murty, Mattes, Chaganti, and Old.
Chambers, T. J. *See* Thomson, Saklatvala, and Chambers.
Chan, C. *See* Malek, Ortega, Chan, Kroczek, and Shevach.
Chartash, E. K. *See* Friedman, Jover, Chartash, and Crow.
Chen, C.-L. H., Ager, L. L., Gartland, G. L., and Cooper, M. D. Identification of a T3/T cell receptor complex in chickens. 375
Chen, P. P. *See* Radoux, Chen, Sorge, and Carson.
Chen, Y.-W., Word, C., Dev, V., Uhr, J. W., Vitetta, E. S., and Tucker, P. W. Double isotype production by a neoplastic B cell line. II. Allelically excluded production of μ and $\gamma 1$ heavy chains without C_H gene rearrangement. 562
—, **Word, C., Jones, S., Uhr, J. W., Tucker, P. W., and Vitetta, E. S.** Double isotype production by a neoplastic B cell line. I. Cellular and biochemical characterization of a variant of BCL_1 that expresses and secretes both IgM and IgG1. 548
Chess, L. *See* Kabat, Nickerson, Liao, Grossbard, Osserman, Glickman, Chess, Robbins, Schneerson, and Yang.
Chin, J. *See* Cameron, Limjuco, Chin, Silberstein, and Schmidt.
Chiorazzi, N. *See* Reeves and Chiorazzi.
Chisari, F. V. *See* Milich, McLachlan, Chisari, and Thornton.
Chua, A. O. *See* Kupper, Ballard, Chua, McGuire, Flood, Horowitz, Langdon, Lightfoot, and Gubler.
Clarkson, S. B., Kimberly, R. P., Valinsky, J. E., Witmer, M. D., Bussel, J. B., Nachman, R. L., and Unkeless, J. C. Blockade of clearance of immune complexes by an anti–Fcγ receptor monoclonal antibody. 474
Cleary, M. L., Galili, N., and Sklar, J. Detection of a second t(14;18) breakpoint cluster region in human follicular lymphomas. 315
Cochet, M. *See* Baldacci, Transy, Cochet, Penit, Israel, and Kourilsky.
Cohen, D. S. *See* Aderem, Cohen, Wright, and Cohn.
Cohn, Z. A. *See* Aderem, Cohen, Wright, and Cohn.
—, *See* Gabay, Heiple, Cohn, and Nathan.
—, *See* Liu, Perussia, Cohn, and Young.
—, *See* Young, Liu, Leong, and Cohn.
—, *See* Young, Podack, and Cohn.
Coletti, D. *See* Hariri, Alonso, Hajjar, Coletti, and Weksler.
Collart, M. A., Belin, D., Vassalli, J.-D., de Kossodo, S., and Vassalli, P. γ interferon enhances macrophage transcription of the tumor necrosis factor/cachectin, interleukin 1, and urokinase genes, which are controlled by short-lived repressors. 2113
Cooper, M. D. *See* Chen, Ager, Gartland, and Cooper.
Cotran, R. S., Gimbrone, M. A., Jr., Bevilacqua, M. P., Mendrick, D. L., and Pober, J. S. Induction and detection of a human endothelial activation antigen in vivo. 661
Coutinho, A. *See* Portnoï, Freitas, Holmberg, Bandiera, and Coutinho.
Coutré, S. *See* Lifson, Coutré, Huang, and Engleman.
Crabtree, G. R. *See* Durand, Kamoun, Norris, Holbrook, Greengard, Crabtree, and Kant.
Crocker, P. R., and Gordon, S. Properties and distribution of a lectin-like hemagglutinin differentially expressed by murine stromal tissue macrophages. 1862
Crow, M. K., Jover, J. A., and Friedman, S. M. Direct T helper–B cell interactions induce an early B cell activation antigen. 1760
—, *See* Friedman, Jover, Chartash, and Crow.
Cunningham, M. W., and Swerlick, R. A. Polyspecificity of antistreptococcal murine monoclonal antibodies and their implications in autoimmunity. 998

D

Dailey, M. O. *See* Tidmarsh, Dailey, and Weissman.
Dale, J. B., and Beachey, E. H. Sequence of myosin-crossreactive epitopes of streptococcal M protein. 1785
Daley, J. F. *See* Schmidt, Murray, Daley, Schlossman, and Ritz.
Dalla-Favera, R. *See* Pelicci, Knowles, Arlin, Wieczorek, Luciw, Dina, Basilico, and Dalla-Favera.
Damle, N. K. *See* Mohagheghpour, Damle, Takada, and Engleman.
Darden, A. G. *See* Forbes, Parfrey, Gomersall, Darden, and Guttmann.
Daugherty, D. *See* Folks, Powell, Lightfoote, Koenig, Fauci, Benn, Rabson, Daugherty, Gendelman, Hoggan, Venkatesan, and Martin.
Davidson, W. F. *See* Holmes, Pierce, Davidson, and Morse.
Davis, M. M. *See* Gascoigne, Waters, Elliott, Victor-Kobrin, Goodnow, Davis, and Bona.
de Klein, A. *See* Bartram, Janssen, Becher, de Klein, and Grosveld.
de Kossodo, S. *See* Collart, Belin, Vassalli, de Kossodo, and Vassalli.
de Ley, M. *See* Groenenwegen, de Ley, Jeunhomme, and Buurman.
de Libero, G. *See* Kaufmann, Hug, and de Libero.
de Vries, R. R. P. *See* Ottenhoff, Neuteboom, Elferink, and de Vries.
—, *See* Schreuder, Tilanus, Bontrop, Bruining, Giphart, van Rood, and de Vries.
de Waal, L. P. *See* Kast, Bronkhorst, de Waal, and Melief.
Debre, P. *See* Kimura, Toyonaga, Yoshikai, Triebel, Debre, Minden, and Mak.
Denizot, F. *See* Luciani, Brunet, Suzan, Denizot, and Golstein.
Derman, A. *See* Gotschlich, Blake, Koomey, Seiff, and Derman.
Desquenne-Clark, L. *See* Kimura, Desquenne-Clark, Miyamoto, and Silvers.
Desrosiers, R. C. *See* Kiyotaki, Desrosiers, and Letvin.
Dev, V. *See* Chen, Word, Dev, Uhr, Vitetta, and Tucker.

Diamantstein, T. *See* Fernandez-Botran, Krammer, Diamantstein, Uhr, and Vitetta.
—, *See* Ridge, Zabriskie, Osawa, Diamantstein, Oronsky, and Kerwar.
DiGiacomo, A., and North, R. J. T cell suppressors of antitumor immunity. The production of Ly-1$^-$,2$^+$ suppressors of delayed sensitivity precedes the production of suppressors of protective immunity. 1179
Dina, D. *See* Pelicci, Knowles, Arlin, Wieczorek, Luciw, Dina, Basilico, and Dalla-Favera.
Drapier, A.-M. *See* Primi, Barbier, Drapier, and Cazenave.
Dunne, D. W. *See* Khalife, Capron, Capron, Grzych, Butterworth, Dunne, and Ouma.
Durand, D. B., Kamoun, M., Norris, C. A., Holbrook, N. J., Greengard, J. S., Crabtree, G. R., and Kant, J. A. Retroviral activation of interleukin 2 gene in a gibbon ape T cell lymphoma line. 1723
Dwyer, D. S., Vakil, M., and Kearney, J. F. Idiotypic network connectivity and a possible cause of myasthenia gravis. 1310
Dyrberg, T., and Oldstone, M. B. A. Peptides as antigens. Importance of orientation. 1344

E

Edmonds, J. P. *See* Geczy, McGuigan, Sullivan, and Edmonds.
Eisinger, M. *See* Albino, Houghton, Eisinger, Lee, Kantor, Oliff, and Old.
Elferink, D. G. *See* Ottenhoff, Neuteboom, Elferink, and de Vries.
Elliott, J. F. *See* Gascoigne, Waters, Elliott, Victor-Kobrin, Goodnow, Davis, and Bona.
Emancipator, S. N. *See* Nakazawa, Emancipator, and Lamm.
Engleman, E. G. *See* Mohagheghpour, Damle, Takada, and Engleman.
Engleman, E. *See* Lifson, Coutré, Huang, and Engleman.
Engler, P. *See* Storb, Pinkert, Arp, Engler, Gollahon, Manz, Brady, and Brinster.
Erickson, B. W. *See* Jones, Khan, Erickson, Hollingshead, Scott, and Fischetti.

F

Fathman, C. G. *See* Goronzy, Weyand, and Fathman.
Fauci, A. S. *See* Folks, Powell, Lightfoote, Koenig, Fauci, Benn, Rabson, Daugherty, Gendelman, Hoggan, Venkatesan, and Martin.
Fearon, D. T. *See* Wilson, Murphy, Wong, Klickstein, Weis, and Fearon.
—, *See* Wong, Kennedy, Bonaccio, Wilson, Klickstein, Weis, and Fearon.
Fernandez-Botran, R., Krammer, P. H., Diamantstein, T., Uhr, J. W., and Vitetta, E. S. B cell–stimulatory factor 1 (BSF-1) promotes growth of helper T cell lines. 580
Ferry, B. *See* Leszczynski, Ferry, Schellekens, Meide, and Häyry.
Fetherston, J. D. *See* Snow, Fetherston, and Zimmer.
Fiers, W. *See* Leung, Geha, Newburger, Burns, Fiers, Lapierre, and Pober.
Fillit, H. M., McCarty, M., and Blake, M. Induction of antibodies to hyaluronic acid by immunization of rabbits with encapsulated streptococci. 762
Fink, M. A. *See* Stauss, Van Waes, Fink, Starr, and Schreiber.
Finnegan, A., Smith, M. A., Smith, J. A., Berzofsky, J., Sachs, D. H., and Hodes, R. J. The T cell repertoire for recognition of a phylogenetically distant protein antigen. Peptide specificity and MHC restriction of staphylococcal nuclease–specific T cell clones. 897
Fischetti, V. A., Jarymowycz, M., Jones, K. F., and Scott, J. R. Streptococcal M protein size mutants occur at high frequency within a single strain. 971
—, *See* Jones, Khan, Erickson, Hollingshead, Scott, and Fischetti.
—, *See* Scott, Guenthner, Malone, and Fischetti.
Flood, P. M. *See* Kupper, Ballard, Chua, McGuire, Flood, Horowitz, Langdon, Lightfoot, and Gubler.
Folks, T. M., Powell, D., Lightfoote, M., Koenig, S., Fauci, A. S., Benn, S., Rabson, A., Daugherty, D., Gendelman, H. E., Hoggan, M. D., Venkatesan, S., and Martin, M. A. Biological and biochemical characterization of a cloned Leu-3$^-$ cell surviving infection with the acquired immune deficiency syndrome retrovirus. 280
Forbes, R. D. C., Parfrey, N. A., Gomersall, M., Darden, A. G., and Guttmann, R. D. Dendritic cell–lymphoid cell aggregation and major histocompatibility antigen expression during rat cardiac allograft rejection. 1239
Forman, J. *See* Linsk, Vogel, Stauss, Forman, and Goodenow.
Fox, O. F. *See* Mamula, Fox, Yamagata, and Harley.
Freitas, A. *See* Portnoï, Freitas, Holmberg, Bandiera, and Coutinho.
Friedman, S. M., Jover, J. A., Chartash, E. K., and Crow, M. K. Antigen-specific, MHC-nonrestricted T helper cell–induced B cell activation. 1773
—, *See* Crow, Jover, and Friedman.
Friend, D. *See* Park, Friend, Gillis, and Urdal.
Froscher, B. G., and Klinman, N. R. Immunization with SV40-transformed cells yields mainly MHC-restricted monoclonal antibodies. 196
Fu, S. M. *See* Gottlieb, Lifshitz, Fu, Staiano-Coico, Wang, and Carter.
—, *See* Hara, Jung, Bjorndahl, and Fu.
Fujii, N. *See* Good, Berzofsky, Maloy, Hayashi, Fujii, Hockmeyer, and Miller.
Fulop, G. M. *See* Lauzon, Siminovitch, Fulop, Phillips, and Roder.

G

Gabay, J. E., Heiple, J. M., Cohn, Z. A., and Nathan, C. F. Subcellular location and properties of bactericidal factors from human neutrophils. 1407
Galili, N. *See* Cleary, Galili, and Sklar.
Gallatin, W. M. *See* Haars, Kronenberg, Gallatin, Weissman, Owen, and Hood.
Gammon, G. M., Oki, A., Shastri, N., and Sercarz, E. E. Induction of tolerance to one determinant

on a synthetic peptide does not affect the response to a second linked determinant. Implications for the mechanism of neonatal tolerance induction. 667

Gammon, G. *See* Shastri, Gammon, Miller, and Sercarz.

Gartland, G. L. *See* Chen, Ager, Gartland, and Cooper.

Gascoigne, N. R. J., Waters, S., Elliott, J. F., Victor-Kobrin, C., Goodnow, C., Davis, M. M., and Bona, C. A. Expression of T cell receptor genes in an antigen-specific hybridoma and radiation-induced variants. 113

Geczy, A. F., McGuigan, L. E., Sullivan, J. S., and Edmonds, J. P. Cytotoxic T lymphocytes against disease-associated determinant(s) in ankylosing spondylitis. 932

Gefter, M. *See* Naparstek, André-Schwartz, Manser, Wysocki, Breitman, Stollar, Gefter, and Schwartz.

Geha, R. S. *See* Leung, Geha, Newburger, Burns, Fiers, Lapierre, and Pober.

Gendelman, H. E. *See* Folks, Powell, Lightfoote, Koenig, Fauci, Benn, Rabson, Daugherty, Gendelman, Hoggan, Venkatesan, and Martin.

Genyea, C. *See* Khater, Macai, Genyea, and Kaplan.

Gerhard, W. *See* Scherle and Gerhard.

Germain, R. N. *See* Miller and Germain.

Giacoletto, K. S., Sant, A. J., Bono, C., Gorka, J., O'Sullivan, D. M., Quaranta, V., and Schwartz, B. D. The human invariant chain is the core protein of the human class II–associated proteoglycan. 1422

Gianturco, S. H. *See* Kurzrock, Rohde, Quesada, Gianturco, Bradley, Sherwin, and Gutterman.

Gillis, S. *See* Park, Friend, Gillis, and Urdal.

Gimbrone, M. A., Jr. *See* Cotran, Gimbrone, Bevilacqua, Mendrick, and Pober.

Giphart, M. J. *See* Schreuder, Tilanus, Bontrop, Bruining, Giphart, van Rood, and de Vries.

Giulian, D., Baker, T. J., Shih, L.-C. N., and Lachman, L. B. Interleukin 1 of the central nervous system is produced by ameboid microglia. 594

Glickman, E. *See* Kabat, Nickerson, Liao, Grossbard, Osserman, Glickman, Chess, Robbins, Schneerson, and Yang.

Goldman, P. *See* Liu, Okayasu, Goldman, Suzuki, Suzuki, and Wheelock.

Goldschneider, I. *See* Greiner, Goldschneider, Komschlies, Medlock, Bollum, and Schultz.

Gollahon, K. *See* Storb, Pinkert, Arp, Engler, Gollahon; Manz, Brady, and Brinster.

Golstein, P. *See* Luciani, Brunet, Suzan, Denizot, and Golstein.

Gomersall, M. *See* Forbes, Parfrey, Gomersall, Darden, and Guttmann.

Good, M. F., Berzofsky, J. A., Maloy, W. L., Hayashi, Y., Fujii, N., Hockmeyer, W. T., and Miller, L. H. Genetic control of the immune response in mice to a *Plasmodium falciparum* sporozoite vaccine. Widespread nonresponsiveness to single malaria T epitope in highly repetitive vaccine. 655

Goodenow, R. S. *See* Linsk, Vogel, Stauss, Forman, and Goodenow.

Goodnow, C. *See* Gascoigne, Waters, Elliott, Victor-Kobrin, Goodnow, Davis, and Bona.

Gordon, S. *See* Crocker and Gordon.

Gorka, J. *See* Giacoletto, Sant, Bono, Gorka, O'Sullivan, Quaranta, and Schwartz.

Goronzy, J., Weyand, C. M., and Fathman, C. G. Long-term humoral unresponsiveness in vivo, induced by treatment with monoclonal antibody against L3T4. 911

Gotch, F. M. *See* McMichael, Gotch, and Rothbard.

Gotschlich, E. C., Blake, M. S., Koomey, J. M., Seiff, M., and Derman, A. Cloning of the structural genes of three H8 antigens and of protein III of *Neisseria gonorrhoeae*. 868

Gottlieb, A. B., Lifshitz, B., Fu, S. M., Staiano-Coico, L., Wang, C. Y., and Carter, D. M. Expression of HLA-DR molecules by keratinocytes, and presence of Langerhans cells in the dermal infiltrate of active psoriatic plaques. 1013

Green, D. R. *See* Suzuki, Kitamura, Kiyono, Kurita, Green, and McGhee.

Greengard, J. S. *See* Durand, Kamoun, Norris, Holbrook, Greengard, Crabtree, and Kant.

Greiner, D. L., Goldschneider, I., Komschlies, K. L., Medlock, E. S., Bollum, F. J., and Schultz, L. Defective lymphopoiesis in bone marrow of motheaten (*me/me*) and viable motheaten (*me^v/me^v*) mutant mice. I. Analysis of development of prothymocytes, early B lineage cells, and terminal deoxynucleotidyl transferase–positive cells. 1129

Griffin, J. A. *See* Arant, Griffin, and Koopman.

Groenenwegen, G., de Ley, M., Jeunhomme, G. M. A. A., and Buurman, W. A. Supernatants of human leukocytes contain mediator, different from interferon γ, that induces expression of MHC class II antigens. 131

—, *See* Groenenwegen, de Ley, Jeunhomme, and Buurman.

Grossbard, L. *See* Kabat, Nickerson, Liao, Grossbard, Osserman, Glickman, Chess, Robbins, Schneerson, and Yang.

Grosveld, G. *See* Bartram, Janssen, Becher, de Klein, and Grosveld.

Grzych, J.-M. *See* Khalife, Capron, Capron, Grzych, Butterworth, Dunne, and Ouma.

Guardiola, J. *See* Accolla, Jotterand-Bellomo, Scarpellino, Maffei, Carra, and Guardiola.

Guberski, D. L. *See* Like, Biron, Weringer, Byman, Sroczynski, and Guberski.

Gubler, U. *See* Kupper, Ballard, Chua, McGuire, Flood, Horowitz, Langdon, Lightfoot, and Gubler.

Guenthner, P. C. *See* Scott, Guenthner, Malone, and Fischetti.

Gurish, M. F. *See* Haba, Gurish, and Nisonoff.

Gutterman, J. U. *See* Kurzrock, Rohde, Quesada, Gianturco, Bradley, Sherwin, and Gutterman.

Guttmann, R. D. *See* Forbes, Parfrey, Gomersall, Darden, and Guttmann.

H

Haars, R., Kronenberg, M., Gallatin, W. M., Weissman, I. L., Owen, F. L., and Hood, L. E. Rearrangement and expression of T cell antigen receptor and γ genes during thymic development. 1

Haba, S., Gurish, M. F., and Nisonoff, A. Inhibition of an IgE response by secondary B cells of a different isotype. 2018

—, **Rosen, E. M., Meek, K., and Nisonoff, A.** Primary structure of IgE monoclonal antibodies expressing an intrastrain crossreactive idiotype. 291
Haenseler, E. *See* Zinkernagel, Haenseler, Leist, Cerny, Hengartner, and Althage.
Hajjar, D. P. *See* Hariri, Alonso, Hajjar, Coletti, and Weksler.
Hammond, W. P., IV. *See* Loughran and Hammond.
Hansen, J. A. *See* Nepom, Palmer, Kim, Hansen, Holbeck, and Nepom.
Hara, T., Jung, L. K. L., Bjorndahl, J. M., and Fu, S. M. Human T cell activation. III. Rapid induction of a phosphorylated 28 kD/32 kD disulfide-linked early activation antigen (EA 1) by 12-*o*-tetradecanoyl phorbol-13-acetate, mitogens, and antigens. 1988
Hardy, R. R. *See* Kikutani, Suemura, Owaki, Nakamura, Sato, Yamasaki, Barsumian, Hardy, and Kishimoto.
Hariri, R. J., Alonso, D. R., Hajjar, D. P., Coletti, D., and Weksler, M. E. Aging and arteriosclerosis. I. Development of myointimal hyperplasia after endothelial injury. 1171
Harley, J. B. *See* Mamula, Fox, Yamagata, and Harley.
Hattori, M. *See* Ikuta, Hattori, Wake, Kano, Honjo, Yodoi, and Minato.
Hayashi, Y. *See* Good, Berzofsky, Maloy, Hayashi, Fujii, Hockmeyer, and Miller.
HayGlass, K. T., Benacerraf, B., and Sy, M.-S. T cell development in B cell–deficient mice. V. Stopping anti-μ treatment results in Igh-restricted expansion of the T suppressor cell repertoire concomitant with the development of normal immunoglobulin levels. 36
Häyry, P. *See* Leszczynski, Ferry, Schellekens, Meide, and Häyry.
Heiple, J. M., and Ossowski, L. Human neutrophil plasminogen activator is localized in specific granules and is translocated to the cell surface by exocytosis. 826
—, *See* Gabay, Heiple, Cohn, and Nathan.
Heller, M. *See* Jouvin-Marche, Heller, and Rudikoff.
Hellqvist, L. *See* Britton, Hellqvist, Basten, and Inglis.
Hengartner, H. *See* Zinkernagel, Haenseler, Leist, Cerny, Hengartner, and Althage.
Hitchcock, P. J. *See* Strittmatter and Hitchcock.
Hockmeyer, W. T. *See* Good, Berzofsky, Maloy, Hayashi, Fujii, Hockmeyer, and Miller.
Hodes, R. J. *See* Finnegan, Smith, Smith, Berzofsky, Sachs, and Hodes.
Hoggan, M. D. *See* Folks, Powell, Lightfoote, Koenig, Fauci, Benn, Rabson, Daugherty, Gendelman, Hoggan, Venkatesan, and Martin.
Holbeck, S. L. *See* Nepom, Palmer, Kim, Hansen, Holbeck, and Nepom.
Holbrook, N. J. *See* Durand, Kamoun, Norris, Holbrook, Greengard, Crabtree, and Kant.
Hollingdale, M. R. *See* Aley, Bates, Tam, and Hollingdale.
Hollingshead, S. K. *See* Jones, Khan, Erickson, Hollingshead, Scott, and Fischetti.
Holmberg, D. *See* Portnoï, Freitas, Holmberg, Bandiera, and Coutinho.
Holmes, K. L., Pierce, J. H., Davidson, W. F., and Morse, H. C., III. Murine hematopoietic cells with pre-B or pre-B/myeloid characteristics are generated by in vitro transformation with retroviruses containing *fes, ras, abl,* and *src* oncogenes. 443
Holt, C. A., Osorio, K., and Lilly, F. Friend virus–specific cytotoxic T lymphocytes recognize both *gag* and *env* gene–encoded specificities. 211
Hong, K. *See* Kinoshita, Medof, Hong, and Nussenzweig.
Honjo, T. *See* Ikuta, Hattori, Wake, Kano, Honjo, Yodoi, and Minato.
Hood, L. E. *See* Siu, Strauss, Lai, and Hood.
—, *See* Haars, Kronenberg, Gallatin, Weissman, Owen, and Hood.
Horowitz, M. C. *See* Kupper, Ballard, Chua, McGuire, Flood, Horowitz, Langdon, Lightfoot, and Gubler.
Houghton, A. N. *See* Albino, Houghton, Eisinger, Lee, Kantor, Oliff, and Old.
Howard, C. R. *See* Thanavala, Brown, Howard, Roitt, and Steward.
Howell, M. D., Austin, R. K., Kelleher, D., Nepom, G. T., and Kagnoff, M. F. An HLA-D region restriction fragment length polymorphism associated with celiac disease. 333
Huang, E. *See* Lifson, Coutré, Huang, and Engleman.
Hug, E. *See* Kaufmann, Hug, and de Libero.

I

Iizuka, M. *See* Kajigaya, Suda, Suda, Saito, Miura, Iizuka, Kobayashi, Minato, and Sudo.
Ikuta, K., Hattori, M., Wake, K., Kano, S., Honjo, T., Yodoi, J., and Minato, N. Expression and rearrangement of the α, β, and γ chain genes of the T cell receptor in cloned murine large granular lymphocyte lines. No correlation with the cytotoxic spectrum. 428
Inaba, K., Schuler, G., Witmer, M. D., Valinsky, J., Atassi, B., and Steinman, R. M. Immunologic properties of purified epidermal Langerhans cells. Distinct requirements for stimulation of unprimed and sensitized T lymphocytes. 605
Inglis, A. S. *See* Britton, Hellqvist, Basten, and Inglis.
Isakson, P. C. Antiimmunoglobulin-treated B cells respond to a B cell differentiation factor for IgG1. 303
Israel, A. *See* Baldacci, Transy, Cochet, Penit, Israel, and Kourilsky.

J

Janssen, J. W. G. *See* Bartram, Janssen, Becher, de Klein, and Grosveld.
Jarymowycz, M. *See* Fischetti, Jarymowycz, Jones, and Scott.
Jenkins, D. E., Jr. *See* Rosenfeld, Jenkins, and Leddy.
Jensen, P. E., and Kapp, J. A. Bystander help in primary immune responses in vivo. 841
Jeunhomme, G. M. A. A. *See* Groenenwegen, de Ley, Jeunhomme, and Buurman.
Jones, K. F., Khan, S. A., Erickson, B. W., Hollingshead, S. K., Scott, J. R., and Fischetti, V. A. Immunochemical localization and amino acid se-

quences of crossreactive epitopes within the group A streptococcal M6 protein. 1226
—, *See* Fischetti, Jarymowycz, Jones, and Scott.
Jones, S. *See* Chen, Word, Jones, Uhr, Tucker, and Vitetta.
Jong, M. T. C. *See* Wright and Jong.
Joseph, M. *See* Capron, Jouault, Prin, Joseph, Ameisen, Butterworth, Papin, Kusnierz, and Capron.
Jotterand-Bellomo, M. *See* Accolla, Jotterand-Bellomo, Scarpellino, Maffei, Carra, and Guardiola.
Jouault, T. *See* Capron, Jouault, Prin, Joseph, Ameisen, Butterworth, Papin, Kusnierz, and Capron.
Jouvin-Marche, E., Heller, M., and Rudikoff, S. Gene correction in the evolution of the T cell receptor β chain. 2083
Jover, J. A. *See* Crow, Jover, and Friedman.
—, *See* Friedman, Jover, Chartash, and Crow.
Jung, L. K. L. *See* Hara, Jung, Bjorndahl, and Fu.

K

Kabat, E. A., Nickerson, K. G., Liao, J., Grossbard, L., Osserman, E. F., Glickman, E., Chess, L., Robbins, J. B., Schneerson, R., and Yang, Y. A human monoclonal macroglobulin with specificity for $\alpha(2 \rightarrow 8)$-linked poly-*N*-acetyl neuraminic acid, the capsular polysaccharide of group B meningococci and *Escherichia coli* K1, which cross-reacts with polynucleotides and with denatured DNA. 642
Kagnoff, M. F. *See* Howell, Austin, Kelleher, Nepom, and Kagnoff.
Kajigaya, S., Suda, T., Suda, J., Saito, M., Miura, Y., Iizuka, M., Kobayashi, S., Minato, N., and Sudo, T. A recombinant murine granulocyte/macrophage (GM) colony-stimulating factor derived from an inducer T cell line (IH5.5). Functional restriction to GM progenitor cells. 1102
Kamoun, M. *See* Durand, Kamoun, Norris, Holbrook, Greengard, Crabtree, and Kant.
Kano, S. *See* Ikuta, Hattori, Wake, Kano, Honjo, Yodoi, and Minato.
Kant, J. A. *See* Durand, Kamoun, Norris, Holbrook, Greengard, Crabtree, and Kant.
Kantor, R. R. S. *See* Albino, Houghton, Eisinger, Lee, Kantor, Oliff, and Old.
Kaplan, J. *See* Khater, Macai, Genyea, and Kaplan.
Kapp, J. A. *See* Jensen and Kapp.
Kast, W. M., Bronkhorst, A. M., de Waal, L. P., and Melief, C. J. Cooperation between cytotoxic and helper T lymphocytes in protection against lethal Sendai virus infection. 723
Kaufmann, S. H. E., Hug, E., and de Libero, G. *Listeria monocytogenes*–reactive T lymphocyte clones with cytolytic activity against infected target cells. 363
Kearney, J. F. *See* Dwyer, Vakil, and Kearney.
Kelleher, D. *See* Howell, Austin, Kelleher, Nepom, and Kagnoff.
Keng, P. *See* Scott, Livnat, Pennell, and Keng.
Kennedy, C. A. *See* Wong, Kennedy, Bonaccio, Wilson, Klickstein, Weis, and Fearon.
Kennedy, D. W., Russo, C., Kim, Y. T., and Weksler, M. E. T cell proliferation induced by anti–self-I-A–specific T cell hybridomas. Evidence of a T cell network. 490
Kerwar, S. S. *See* Ridge, Zabriskie, Osawa, Diamantstein, Oronsky, and Kerwar.
Khalife, J., Capron, M., Capron, A., Grzych, J.-M., Butterworth, A. E., Dunne, D. W., and Ouma, J. H. Immunity in human schistosomiasis mansoni. Regulation of protective immune mechanisms by IgM blocking antibodies. 1626
Khan, S. A. *See* Jones, Khan, Erickson, Hollingshead, Scott, and Fischetti.
Khater, M., Macai, J., Genyea, C., and Kaplan, J. Natural killer cell regulation of age-related and type-specific variations in antibody responses to pneumococcal polysaccharides. 1505
Kikutani, H., Suemura, M., Owaki, H., Nakamura, H., Sato, R., Yamasaki, K., Barsumian, E. L., Hardy, R. R., and Kishimoto, T. Fcε receptor, a specific differentiation marker transiently expressed on mature B cells before isotype switching. 1455
Kim, S. J. *See* Nepom, Palmer, Kim, Hansen, Holbeck, and Nepom.
Kim, Y. T. *See* Kennedy, Russo, Kim, and Weksler.
Kimberly, R. P. *See* Clarkson, Kimberly, Valinsky, Witmer, Bussel, Nachman, and Unkeless.
Kimura, H., Desquenne-Clark, L., Miyamoto, M., and Silvers, W. K. Major histocompatibility complex (MHC) restriction of foreign transplantation antigens in rats rendered tolerant at birth. 2031
—, *See* Sorokin, Kimura, Schroder, Wilson, and Wilson.
Kimura, N., Toyonaga, B., Yoshikai, Y., Triebel, F., Debre, P., Minden, M. D., and Mak, T. W. Sequences and diversity of human T cell receptor β chain variable region genes. 739
—, *See* Yoshikai, Kimura, Toyonaga, and Mak.
Kinoshita, T., Medof, M. E., Hong, K., and Nussenzweig, V. Membrane-bound C4b interacts endogenously with complement receptor CR1 of human red cells. 1377
Kishimoto, T. *See* Kikutani, Suemura, Owaki, Nakamura, Sato, Yamasaki, Barsumian, Hardy, and Kishimoto.
Kitamura, K. *See* Suzuki, Kitamura, Kiyono, Kurita, Green, and McGhee.
Kiyono, H. *See* Suzuki, Kitamura, Kiyono, Kurita, Green, and McGhee.
Kiyotaki, M., Desrosiers, R. C., and Letvin, N. L. *Herpesvirus saimiri* strain 11 immortalizes a restricted marmoset T8 lymphocyte subpopulation in vitro. 926
Klein, J. R. Ontogeny of the Thy-1$^-$,Lyt-2$^+$ murine intestinal intraepithelial lymphocyte. Characterization of a unique population of thymus-independent cytotoxic effector cells in the intestinal mucosa. 309,
Klickstein, L. B. *See* Wilson, Murphy, Wong, Klickstein, Weis, and Fearon.
—, *See* Wong, Kennedy, Bonaccio, Wilson, Klickstein, Weis, and Fearon.
Klinman, N. R. *See* Froscher and Klinman.
Knowles, D. M., II. *See* Pelicci, Knowles, Arlin, Wieczorek, Luciw, Dina, Basilico, and Dalla-Favera.
Kobayashi, M. *See* Murphy, Loudon, Kobayashi, and Trinchieri.
—, *See* Trinchieri, Kobayashi, Rosen, Louden, Murphy, and Perussia.
Kobayashi, S. *See* Kajigaya, Suda, Suda, Saito, Miura, Iizuka, Kobayashi, Minato, and Sudo.

Koch, F., Thiele, H.-G., and Low, M. G. Release of the rat T cell alloantigen RT-6.2 from cell membranes by phosphatidylinositol-specific phospholipase C. 1338

Koenig, S. *See* Folks, Powell, Lightfoote, Koenig, Fauci, Benn, Rabson, Daugherty, Gendelman, Hoggan, Venkatesan, and Martin.

Komschlies, K. L. *See* Greiner, Goldschneider, Komschlies, Medlock, Bollum, and Schultz.

Koomey, J. M. *See* Gotschlich, Blake, Koomey, Seiff, and Derman.

Koopman, W. J. *See* Arant, Griffin, and Koopman.

Kourilsky, P. *See* Baldacci, Transy, Cochet, Penit, Israel, and Kourilsky.

Kraemer, F. B. *See* Behr and Kraemer.

Krammer, P. H. *See* Fernandez-Botran, Krammer, Diamantstein, Uhr, and Vitetta.

Krochin, N. *See* Beutler, Tkacencko, Milsark, Krochin, and Cerami.

Kroczek, R. A. *See* Malek, Ortega, Chan, Kroczek, and Shevach.

Kronenberg, M. *See* Haars, Kronenberg, Gallatin, Weissman, Owen, and Hood.

Kumagai, K. *See* Suzuki, Suzuki, Takahashi, and Kumagai.

Kupper, T. S., Ballard, D. W., Chua, A. O., McGuire, J. S., Flood, P. M., Horowitz, M. C., Langdon, R., Lightfoot, L., and Gubler, U. Human keratinocytes contain mRNA indistinguishable from monocyte interleukin 1α and β mRNA. Keratinocyte epidermal cell–derived thymocyte-activating factor is identical to interleukin 1. 2095

Kurita, T. *See* Suzuki, Kitamura, Kiyono, Kurita, Green, and McGhee.

Kurzrock, R., Rohde, M. F., Quesada, J. R., Gianturco, S. H., Bradley, W. A., Sherwin, S. A., and Gutterman, J. U. Recombinant γ interferon induces hypertriglyceridemia and inhibits post-heparin lipase activity in cancer patients. 1093

Kusnierz, J.-P. *See* Capron, Jouault, Prin, Joseph, Ameisen, Butterworth, Papin, Kusnierz, and Capron.

Kuta, A. E., and Baum, L. L. C-reactive protein is produced by a small number of normal human peripheral blood lymphocytes. 321

Kvist, S. *See* Scholler, Shimonkevitz, MacDonald, and Kvist.

L

Lachman, L. B. *See* Giulian, Baker, Shih, and Lachman.

Lai, E. *See* Siu, Strauss, Lai, and Hood.

Lamm, M. E. *See* Nakazawa, Emancipator, and Lamm.

Langdon, R. *See* Kupper, Ballard, Chua, McGuire, Flood, Horowitz, Langdon, Lightfoot, and Gubler.

Lanier, L. L., Ruitenberg, J. J., and Phillips, J. H. Human CD3$^+$ T lymphocytes that express neither CD4 nor CD8 antigens. 339

—, *See* Phillips and Lanier.

Lapierre, L. A. *See* Leung, Geha, Newburger, Burns, Fiers, Lapierre, and Pober.

Lauzon, R. J., Siminovitch, K. A., Fulop, G. M., Phillips, R. A., and Roder, J. C. An expanded population of natural killer cells in mice with severe combined immunodeficiency (SCID) lack rearrangement and expression of T cell receptor genes. 1797

Leddy, J. P. *See* Rosenfeld, Jenkins, and Leddy.

Lee, J. S. *See* Albino, Houghton, Eisinger, Lee, Kantor, Oliff, and Old.

Leist, T. *See* Zinkernagel, Haenseler, Leist, Cerny, Hengartner, and Althage.

Lennon, V. A. *See* Williams and Lennon.

Leong, L. G. *See* Young, Liu, Leong, and Cohn.

Leszczynski, D., Ferry, B., Schellekens, H., Meide, P. H. V. D., and Häyry, P. Antagonistic effects of γ interferon and steroids on tissue antigenicity. 1470

Letvin, N. L. *See* Kiyotaki, Desrosiers, and Letvin.

Leung, D. Y. M., Geha, R. S., Newburger, J. W., Burns, J. C., Fiers, W., Lapierre, L. A., and Pober, J. S. Two monokines, interleukin 1 and tumor necrosis factor, render cultured vascular endothelial cells susceptible to lysis by antibodies circulating during Kawasaki syndrome. 1958

Levy, R. *See* Carroll, Lowder, Streifer, Warnke, Levy, and Levy.

Levy, S. *See* Carroll, Lowder, Streifer, Warnke, Levy, and Levy.

Liao, J. *See* Kabat, Nickerson, Liao, Grossbard, Osserman, Glickman, Chess, Robbins, Schneerson, and Yang.

Lifshitz, B. *See* Gottlieb, Lifshitz, Fu, Staiano-Coico, Wang, and Carter.

Lifson, J., Coutré, S., Huang, E., and Engleman, E. Role of envelope glycoprotein carbohydrate in human immunodeficiency virus (HIV) infectivity and virus-induced cell fusion. 2101

Lightfoot, L. *See* Kupper, Ballard, Chua, McGuire, Flood, Horowitz, Langdon, Lightfoot, and Gubler.

Lightfoote, M. *See* Folks, Powell, Lightfoote, Koenig, Fauci, Benn, Rabson, Daugherty, Gendelman, Hoggan, Venkatesan, and Martin.

Like, A. A., Biron, C. A., Weringer, E. J., Byman, K., Sroczynski, E., and Guberski, D. L. Prevention of diabetes in Biobreeding/Worcester rats with monoclonal antibodies that recognize T lymphocytes or natural killer cells. 1145

Lilly, F. *See* Holt, Osorio, and Lilly.

Limjuco, G. A. *See* Cameron, Limjuco, Chin, Silberstein, and Schmidt.

Linsk, R., Vogel, J., Stauss, H., Forman, J., and Goodenow, R. S. Structure and function of three novel MHC class I antigens derived from a C3H ultraviolet-induced fibrosarcoma. 794

Liu, C.-C., Perussia, B., Cohn, Z. A., and Young, J. D.-E Identification of a pore-forming protein of human peripheral blood natural killer cells. 2061

—, *See* Young, Liu, Leong, and Cohn.

Liu, C.-M., Okayasu, T., Goldman, P., Suzuki, Y., Suzuki, K., and Wheelock, E. F. Immune regulation of the L5178Y murine tumor-dormant state. I. In vivo and in vitro effects of prostaglandin E_2 and indomethacin on tumor cell growth. 1259

Livnat, D. *See* Scott, Livnat, Pennell, and Keng.

Long, E. O. *See* Sekaly, Tonnelle, Strubin, Mach, and Long.

Louden, R. *See* Trinchieri, Kobayashi, Rosen, Louden, Murphy, and Perussia.

Loudon, R. *See* Murphy, Loudon, Kobayashi, and Trinchieri.

Loughran, T. P., Jr., and Hammond, W. P., IV. Adult-onset cyclic neutropenia is a benign neoplasm associated with clonal proliferation of large granular lymphocytes. 2089

Low, M. G. *See* Koch, Thiele, and Low.

Lowder, J. N. *See* Carroll, Lowder, Streifer, Warnke, Levy, and Levy.

Lowenthal, J. W., and MacDonald, H. R. Binding and internalization of interleukin 1 by T cells. Direct evidence for high- and low-affinity classes of interleukin 1 receptor. 1060

Lowry, S. F. *See* Tracey, Lowry, Beutler, Cerami, Albert, and Shires.

Luciani, M.-F., Brunet, J.-F., Suzan, M., Denizot, F., and Golstein, P. Self-sparing of long-term in vitro–cloned or uncloned cytotoxic T lymphocytes. 962

Luciw, P. *See* Pelicci, Knowles, Arlin, Wieczorek, Luciw, Dina, Basilico, and Dalla-Favera.

Lyons, M. J., Amador, R., Petito, C., Nagashima, K., Weinreb, H., and Zabriskie, J. B. Inhibition of acute experimental allergic encephalomyelitis in mice by colchicine. 1803

Lytton, E. J., and Blake, M. S. Isolation and partial characterization of the reduction-modifiable protein of *Neisseria gonorrhoeae*. 1749

M

Macai, J. *See* Khater, Macai, Genyea, and Kaplan.

MacDonald, H. R. *See* Lowenthal and MacDonald.

—, *See* Scholler, Shimonkevitz, MacDonald, and Kvist.

Mach, B. *See* Sekaly, Tonnelle, Strubin, Mach, and Long.

Maffei, A. *See* Accolla, Jotterand-Bellomo, Scarpellino, Maffei, Carra, and Guardiola.

Mak, T. W. *See* Kimura, Toyonaga, Yoshikai, Triebel, Debre, Minden, and Mak.

—, *See* Yoshikai, Kimura, Toyonaga, and Mak.

Malek, T. R., Ortega, G., Chan, C., Kroczek, R. A., and Shevach, E. M. Role of Ly-6 in lymphocyte activation. II. Induction of T cell activation by monoclonal anti-Ly-6 antibodies. 709

Malone, L. M. *See* Scott, Guenthner, Malone, and Fischetti.

Maloy, W. L. *See* Good, Berzofsky, Maloy, Hayashi, Fujii, Hockmeyer, and Miller.

Mamula, M. J., Fox, O. F., Yamagata, H., and Harley, J. B. The Ro/SSA autoantigen as an immunogen. Some anti-Ro/SSA antibody binds IgG. 1889

Mandell, G. L. *See* Wright and Mandell.

Mannucci, P. M. *See* Altieri and Mannucci.

Manser, T. *See* Naparstek, André-Schwartz, Manser, Wysocki, Breitman, Stollar, Gefter, and Schwartz.

Manz, J. *See* Storb, Pinkert, Arp, Engler, Gollahon, Manz, Brady, and Brinster.

Marlin, S. D., Morton, C. C., Anderson, D. C., and Springer, T. A. LFA-1 immunodeficiency disease. Definition of the genetic defect and chromosomal mapping of α and β subunits of the lymphocyte function–associated antigen 1 (LFA-1) by complementation in hybrid cells. 855

Martin, M. A. *See* Folks, Powell, Lightfoote, Koenig, Fauci, Benn, Rabson, Daugherty, Gendelman, Hoggan, Venkatesan, and Martin.

Mason, A. *See* Ortaldo, Mason, and Overton.

Matsuyama, M. *See* Taguchi, Takahashi, Seto, Namikawa, Matsuyama, and Nishizuka.

Mattes, M. J. *See* Rettig, Murty, Mattes, Chaganti, and Old.

Mayer, L. Terminal maturation of resting B cells by proliferation-independent B cell differentiation factors. 383,

McCarty, M. *See* Fillit, McCarty, and Blake.

McCulloch, E. A. *See* Smith, McCulloch, and Benchimol.

McGee, M. P., and Rothberger, H. Assembly of the prothrombin activator complex on rabbit alveolar macrophage high-affinity factor Xa receptors. A kinetic study. 1902

McGhee, J. R. *See* Suzuki, Kitamura, Kiyono, Kurita, Green, and McGhee.

McGuigan, L. E. *See* Geczy, McGuigan, Sullivan, and Edmonds.

McGuire, J. S. *See* Kupper, Ballard, Chua, McGuire, Flood, Horowitz, Langdon, Lightfoot, and Gubler.

McIntyre, K. W., and Welsh, R. M. Accumulation of natural killer and cytotoxic large granular lymphocytes in the liver during virus infection. 1667

McKinnon, D., and Ceredig, R. Changes in the expression of potassium channels during mouse T cell development. 1846

McLachlan, A. *See* Milich, McLachlan, Chisari, and Thornton.

McMichael, A. J., Gotch, F. M., and Rothbard, J. HLA B37 determines an influenza A virus nucleoprotein epitope recognized by cytotoxic T lymphocytes. 1397

Medlock, E. S. *See* Greiner, Goldschneider, Komschlies, Medlock, Bollum, and Schultz.

Medof, M. E. *See* Kinoshita, Medof, Hong, and Nussenzweig.

Meek, K. *See* Haba, Rosen, Meek, and Nisonoff.

Meek, R. L., and Benditt, E. P. Amyloid A gene family expression in different mouse tissues. 2006

Meide, P. H. V. D. *See* Leszczynski, Ferry, Schellekens, Meide, and Häyry.

Melief, C. J. *See* Kast, Bronkhorst, de Waal, and Melief.

Mendrick, D. L. *See* Cotran, Gimbrone, Bevilacqua, Mendrick, and Pober.

Milich, D. R., McLachlan, A., Chisari, F. V., and Thornton, G. B. Nonoverlapping T and B cell determinants on a hepatitis B surface antigen pre-S(2) region synthetic peptide. 532

Miller, A. *See* Shastri, Gammon, Miller, and Sercarz.

Miller, D. S. *See* Bandyopadhyay, Perussia, Trinchieri, Miller, and Starr.

Miller, J., and Germain, R. N. Efficient cell surface expression of class II MHC molecules in the absence of associated invariant chain. 1478

Miller, L. H. *See* Good, Berzofsky, Maloy, Hayashi, Fujii, Hockmeyer, and Miller.

Milsark, I. *See* Beutler, Tkacencko, Milsark, Krochin, and Cerami.

Minato, N. *See* Ikuta, Hattori, Wake, Kano, Honjo, Yodoi, and Minato.

—, *See* Kajigaya, Suda, Suda, Saito, Miura, Iizuka, Kobayashi, Minato, and Sudo.

Minden, M. D. *See* Kimura, Toyonaga, Yoshikai, Triebel, Debre, Minden, and Mak.
Miura, Y. *See* Kajigaya, Suda, Suda, Saito, Miura, Iizuka, Kobayashi, Minato, and Sudo.
Miyamoto, M. *See* Kimura, Desquenne-Clark, Miyamoto, and Silvers.
Mohagheghpour, N., Damle, N. K., Takada, S., and Engleman, E. G. Generation of antigen receptor–specific suppressor T cell clones in man. 950
Mond, J. J. *See* Rabin, Mond, Ohara, and Paul.
Morse, H. C., III. *See* Holmes, Pierce, Davidson, and Morse.
Morton, C. C. *See* Marlin, Morton, Anderson, and Springer.
Murphy, E. E. *See* Wilson, Murphy, Wong, Klickstein, Weis, and Fearon.
Murphy, M., Loudon, R., Kobayashi, M., and Trinchieri, G. γ interferon and lymphotoxin, released by activated T cells, synergize to inhibit granulocyte/monocyte colony formation. 263
—, *See* Trinchieri, Kobayashi, Rosen, Louden, Murphy, and Perussia.
Murray, C. *See* Schmidt, Murray, Daley, Schlossman, and Ritz.
Murty, V. V. V. S. *See* Rettig, Murty, Mattes, Chaganti, and Old.

N

Nachman, R. L. *See* Clarkson, Kimberly, Valinsky, Witmer, Bussel, Nachman, and Unkeless.
Nagashima, K. *See* Lyons, Amador, Petito, Nagashima, Weinreb, and Zabriskie.
Nakamura, H. *See* Kikutani, Suemura, Owaki, Nakamura, Sato, Yamasaki, Barsumian, Hardy, and Kishimoto.
Nakazawa, M., Emancipator, S. N., and Lamm, M. E. Proteolytic enzyme treatment reduces glomerular immune deposits and proteinuria in passive Heymann nephritis. 1973
Namikawa, R. *See* Taguchi, Takahashi, Seto, Namikawa, Matsuyama, and Nishizuka.
Naparstek, Y., André-Schwartz, J., Manser, T., Wysocki, L. J., Breitman, L., Stollar, B. D., Gefter, M., and Schwartz, R. S. A single germline V_H gene segment of normal A/J mice encodes autoantibodies characteristic of systemic lupus erythematosus. 614
Nathan, C. F. *See* Gabay, Heiple, Cohn, and Nathan.
—, *See* Tsunawaki and Nathan.
Nemazee, D. A. *See* Shlomchik, Nemazee, Sato, Van Snick, Carson, and Weigert.
Nepom, B. S., Palmer, J., Kim, S. J., Hansen, J. A., Holbeck, S. L., and Nepom, G. T. Specific genomic markers for the HLA-DQ subregion discriminate between $DR4^+$ insulin-dependent diabetes mellitus and $DR4^+$ seropositive juvenile rheumatoid arthritis. 345
Nepom, G. T. *See* Howell, Austin, Kelleher, Nepom, and Kagnoff.
—, *See* Nepom, Palmer, Kim, Hansen, Holbeck, and Nepom.
Neuteboom, S. *See* Ottenhoff, Neuteboom, Elferink, and de Vries.
Newburger, J. W. *See* Leung, Geha, Newburger, Burns, Fiers, Lapierre, and Pober.
Nickerson, K. G. *See* Kabat, Nickerson, Liao, Grossbard, Osserman, Glickman, Chess, Robbins, Schneerson, and Yang.
Nishizuka, Y. *See* Taguchi, Takahashi, Seto, Namikawa, Matsuyama, and Nishizuka.
Nisonoff, A. *See* Haba, Gurish, and Nisonoff.
—, *See* Haba, Rosen, Meek, and Nisonoff.
Norris, C. A. *See* Durand, Kamoun, Norris, Holbrook, Greengard, Crabtree, and Kant.
North, R. J. Radiation-induced, immunologically mediated regression of an established tumor as an example of successful therapeutic immunomanipulation. Preferential elimination of suppressor T cells allows sustained production of effector T cells. 1652
—, *See* DiGiacomo and North.
Nussenzweig, V. *See* Kinoshita, Medof, Hong, and Nussenzweig.

O

Ohara, J. *See* Rabin, Mond, Ohara, and Paul.
Okayasu, T. *See* Liu, Okayasu, Goldman, Suzuki, Suzuki, and Wheelock.
Oki, A. *See* Gammon, Oki, Shastri, and Sercarz.
Old, L. J. *See* Albino, Houghton, Eisinger, Lee, Kantor, Oliff, and Old.
—, *See* Rettig, Murty, Mattes, Chaganti, and Old.
—, *See* Rubin, Anderson, Sullivan, Williamson, Carswell, and Old.
Oldstone, M. B. A. *See* Dyrberg and Oldstone.
Oliff, A. I. *See* Albino, Houghton, Eisinger, Lee, Kantor, Oliff, and Old.
Oronsky, A. L. *See* Ridge, Zabriskie, Osawa, Diamantstein, Oronsky, and Kerwar.
Ortaldo, J. R., Mason, A., and Overton, R. Lymphokine-activated killer cells. Analysis of progenitors and effectors. 1193
Ortega, G. *See* Malek, Ortega, Chan, Kroczek, and Shevach.
Osawa, H. *See* Ridge, Zabriskie, Osawa, Diamantstein, Oronsky, and Kerwar.
Osorio, K. *See* Holt, Osorio, and Lilly.
Osserman, E. F. *See* Kabat, Nickerson, Liao, Grossbard, Osserman, Glickman, Chess, Robbins, Schneerson, and Yang.
Ossowski, L. *See* Heiple and Ossowski.
O'Sullivan, D. M. *See* Giacoletto, Sant, Bono, Gorka, O'Sullivan, Quaranta, and Schwartz.
Ottenhoff, T. H. M., Neuteboom, S., Elferink, D. G., and de Vries, R. R. P. Molecular localization and polymorphism of HLA class II restriction determinants defined by *Mycobacterium leprae*–reactive helper T cell clones from leprosy patients. 1923
Ouma, J. H. *See* Khalife, Capron, Capron, Grzych, Butterworth, Dunne, and Ouma.
Overton, R. *See* Ortaldo, Mason, and Overton.
Owaki, H. *See* Kikutani, Suemura, Owaki, Nakamura, Sato, Yamasaki, Barsumian, Hardy, and Kishimoto.
Owen, F. L. *See* Haars, Kronenberg, Gallatin, Weissman, Owen, and Hood.

P

Palmer, J. *See* Nepom, Palmer, Kim, Hansen, Holbeck, and Nepom.

Papin, J.-P. *See* Capron, Jouault, Prin, Joseph, Ameisen, Butterworth, Papin, Kusnierz, and Capron.

Parfrey, N. A. *See* Forbes, Parfrey, Gomersall, Darden, and Guttmann.

Park, L. S., Friend, D., Gillis, S., and Urdal, D. L. Characterization of the cell surface receptor for human granulocyte/macrophage colony-stimulating factor. 251

Paul, W. E. *See* Rabin, Mond, Ohara, and Paul.

Pelicci, P.-G., Knowles, D. M., II, Arlin, Z. A., Wieczorek, R., Luciw, P., Dina, D., Basilico, C., and Dalla-Favera, R. Multiple monoclonal B cell expansions and c-*myc* oncogene rearrangements in acquired immune deficiency syndrome–related lymphoproliferative disorders. Implications for lymphomagenesis. 2049

Penit, C. *See* Baldacci, Transy, Cochet, Penit, Israel, and Kourilsky.

Pennell, C. A. *See* Scott, Livnat, Pennell, and Keng.

Pernis, B. *See* Bushkin, Posnett, Pernis, and Wang.

Perussia, B. *See* Bandyopadhyay, Perussia, Trinchieri, Miller, and Starr.

—, *See* Liu, Perussia, Cohn, and Young.

—, *See* Trinchieri, Kobayashi, Rosen, Louden, Murphy, and Perussia.

Peterlin, B. M. *See* Calman and Peterlin.

Peterson, K. M., Baseman, J. B., and Alderete, J. F. Isolation of a *Treponema pallidum* gene encoding immunodominant outer envelope protein P6, which reacts with sera from patients at different stages of syphilis. 1160

Petito, C. *See* Lyons, Amador, Petito, Nagashima, Weinreb, and Zabriskie.

Phillips, J. H., and Lanier, L. L. Dissection of the lymphokine-activated killer phenomenon. Relative contribution of peripheral blood natural killer cells and T lymphocytes to cytolysis. 814

—, *See* Lanier, Ruitenberg, and Phillips.

Phillips, R. A. *See* Lauzon, Siminovitch, Fulop, Phillips, and Roder.

Pierce, J. H. *See* Holmes, Pierce, Davidson, and Morse.

Pinkert, C. *See* Storb, Pinkert, Arp, Engler, Gollahon, Manz, Brady, and Brinster.

Pischel, K. D., Bluestein, H. G., and Woods, V. L., Jr. Very late activation antigens (VLA) are human leukocyte–neuronal crossreactive cell surface antigens. 393

Pober, J. S. *See* Cotran, Gimbrone, Bevilacqua, Mendrick, and Pober.

—, *See* Leung, Geha, Newburger, Burns, Fiers, Lapierre, and Pober.

Podack, E. R. *See* Young, Podack, and Cohn.

Pollard, J. W. *See* Bartocci, Pollard, and Stanley.

Portnoï, D., Freitas, A., Holmberg, D., Bandiera, A., and Coutinho, A. Immunocompetent autoreactive B lymphocytes are activated cycling cells in normal mice. 25

Posnett, D. N. *See* Bushkin, Posnett, Pernis, and Wang.

Possani, L. D. *See* Alagon, Possani, Smart, and Schleuning.

Powell, D. *See* Folks, Powell, Lightfoote, Koenig, Fauci, Benn, Rabson, Daugherty, Gendelman, Hoggan, Venkatesan, and Martin.

Primi, D., and Cazenave, P.-A. Lack of expression of the V_HS107 gene family in the lipopolysaccharide-sensitive B cell subset of X-linked immunodeficiency–defective mice. 357

—, **Barbier, E., Drapier, A.-M., and Cazenave, P.-A.** Paucity of phosphorylcholine-specific clones in B cells expressing the V_HT15 gene product. 2107

Prin, L. *See* Capron, Jouault, Prin, Joseph, Ameisen, Butterworth, Papin, Kusnierz, and Capron.

Q

Quaranta, V. *See* Giacoletto, Sant, Bono, Gorka, O'-Sullivan, Quaranta, and Schwartz.

Quesada, J. R. *See* Kurzrock, Rohde, Quesada, Gianturco, Bradley, Sherwin, and Gutterman.

R

Rabin, E. M., Mond, J. J., Ohara, J., and Paul, W. E. B cell–stimulatory factor 1 (BSF-1) prepares resting B cells to enter S phase in response to anti-IgM and lipopolysaccharide. 517

Rabson, A. *See* Folks, Powell, Lightfoote, Koenig, Fauci, Benn, Rabson, Daugherty, Gendelman, Hoggan, Venkatesan, and Martin.

Radoux, V., Chen, P. P., Sorge, J. J., and Carson, D. A. A conserved human germline Vκ gene directly encodes rheumatoid factor light chains. 2119

Reeves, W. H., and Chiorazzi, N. Interactions between anti-DNA and anti-DNA-binding protein autoantibodies in cryoglobulins from sera of patients with systemic lupus erythematosus. 1029

Rettig, W. J., Murty, V. V. V. S., Mattes, M. J., Chaganti, R. S. K., and Old, L. J. Extracellular matrix–modulated expression of human cell surface glycoproteins A42 and J143. Intrinsic and extrinsic signals determine antigenic phenotype. 1581

Rice, P. A., Vayo, H. E., Tam, M. R., and Blake, M. S. Immunoglobulin G antibodies directed against protein III block killing of serum-resistant *Neisseria gonorrhoeae* by immune serum. 1735

Ridge, S. C., Zabriskie, J. B., Osawa, H., Diamantstein, T., Oronsky, A. L., and Kerwar, S. S. Administration of group A streptococcal cell walls to rats induces an interleukin 2 deficiency. 327

Ritz, J. *See* Schmidt, Murray, Daley, Schlossman, and Ritz.

Robbins, J. B. *See* Kabat, Nickerson, Liao, Grossbard, Osserman, Glickman, Chess, Robbins, Schneerson, and Yang.

Roder, J. C. *See* Lauzon, Siminovitch, Fulop, Phillips, and Roder.

Rodriguez de Cordoba, S., and Rubenstein, P. Quantitative variations of the C3b/C4b receptor (CR1) in human erythrocytes are controlled by genes within the regulator of complement activation (RCA) gene cluster. 1274

Rohde, M. F. *See* Kurzrock, Rohde, Quesada, Gianturco, Bradley, Sherwin, and Gutterman.
Roitt, I. M. *See* Thanavala, Brown, Howard, Roitt, and Steward.
Rosen, E. M. *See* Haba, Rosen, Meek, and Nisonoff.
Rosen, M. *See* Trinchieri, Kobayashi, Rosen, Louden, Murphy, and Perussia.
Rosenfeld, S. I., Jenkins, D. E., Jr., and Leddy, J. P. Enhanced reactive lysis of paroxysmal nocturnal hemoglobinuria erythrocytes. Studies on C9 binding and incorporation into high molecular weight complexes. 981
Rothbard, J. *See* McMichael, Gotch, and Rothbard.
Rothberger, H. *See* McGee and Rothberger.
Rothstein, J. L. *See* Van Waes, Urban, Rothstein, Ward, and Schreiber.
Rubenstein, P. *See* Rodriguez de Cordoba and Rubenstein.
Rubin, B. Y., Anderson, S. L., Sullivan, S. A., Williamson, B. D., Carswell, E. A., and Old, L. J. Nonhematopoietic cells selected for resistance to tumor necrosis factor produce tumor necrosis factor. 1350
Rudikoff, S. *See* Jouvin-Marche, Heller, and Rudikoff.
Ruitenberg, J. J. *See* Lanier, Ruitenberg, and Phillips.
Russo, C. *See* Kennedy, Russo, Kim, and Weksler.

S

Sachs, D. H. *See* Finnegan, Smith, Smith, Berzofsky, Sachs, and Hodes.
Saito, M. *See* Kajigaya, Suda, Suda, Saito, Miura, Iizuka, Kobayashi, Minato, and Sudo.
Saklatvala, J. *See* Thomson, Saklatvala, and Chambers.
Sant, A. J. *See* Giacoletto, Sant, Bono, Gorka, O'Sullivan, Quaranta, and Schwartz.
Sato, R. *See* Kikutani, Suemura, Owaki, Nakamura, Sato, Yamasaki, Barsumian, Hardy, and Kishimoto.
Sato, V. L. *See* Shlomchik, Nemazee, Sato, Van Snick, Carson, and Weigert.
Sayers, G. *See* Wozencraft, Sayers, and Blackwell.
Scarpellino, L. *See* Accolla, Jotterand-Bellomo, Scarpellino, Maffei, Carra, and Guardiola.
Schellekens, H. *See* Leszczynski, Ferry, Schellekens, Meide, and Häyry.
Scherle, P. A., and Gerhard, W. Functional analysis of influenza-specific helper T cell clones in vivo. T cells specific for internal viral proteins provide cognate help for B cell responses to the hemagglutinin. 1114
Schleuning, W.-D. *See* Alagon, Possani, Smart, and Schleuning.
Schlossman, S. F. *See* Schmidt, Murray, Daley, Schlossman, and Ritz.
Schmidt, J. A. *See* Cameron, Limjuco, Chin, Silberstein, and Schmidt.
Schmidt, R. E., Murray, C., Daley, J. F., Schlossman, S. F., and Ritz, J. A subset of natural killer cells in peripheral blood displays a mature T cell phenotype. 351
Schneerson, R. *See* Kabat, Nickerson, Liao, Grossbard, Osserman, Glickman, Chess, Robbins, Schneerson, and Yang.
Scholler, J., Shimonkevitz, R., MacDonald, H. R., and Kvist, S. Different structural constraints for recognition of mouse H-2K^d and -K^k antigens by alloimmune cytolytic T lymphocytes. 1823
Schreiber, H. *See* Stauss, Van Waes, Fink, Starr, and Schreiber.
—, *See* Van Waes, Urban, Rothstein, Ward, and Schreiber.
Schreuder, G. M. Th., Tilanus, M. G. J., Bontrop, R. E., Bruining, G. J., Giphart, M. J., van Rood, J. J., and de Vries, R. R. P. HLA-DQ polymorphism associated with resistance to type I diabetes detected with monoclonal antibodies, isoelectric point differences, and restriction fragment length polymorphism. 938
Schroder, K. *See* Sorokin, Kimura, Schroder, Wilson, and Wilson.
Schuler, G. *See* Inaba, Schuler, Witmer, Valinsky, Atassi, and Steinman.
Schultz, L. *See* Greiner, Goldschneider, Komschlies, Medlock, Bollum, and Schultz.
Schwartz, B. D. *See* Giacoletto, Sant, Bono, Gorka, O'Sullivan, Quaranta, and Schwartz.
Schwartz, R. S. *See* Naparstek, André-Schwartz, Manser, Wysocki, Breitman, Stollar, Gefter, and Schwartz.
Scott, D. W., Livnat, D., Pennell, C. A., and Keng, P. Lymphoma models for B cell activation and tolerance. III. Cell cycle dependence for negative signalling of WEHI-231 B lymphoma cells by anti-μ. 156
Scott, J. R., Guenthner, P. C., Malone, L. M., and Fischetti, V. A. Conversion of an M$^-$ group A streptococcus to M$^+$ by transfer of a plasmid containing an M6 gene. 1641
—, *See* Fischetti, Jarymowycz, Jones, and Scott.
—, *See* Jones, Khan, Erickson, Hollingshead, Scott, and Fischetti.
Seiff, M. *See* Gotschlich, Blake, Koomey, Seiff, and Derman.
Sekaly, R. P., Tonnelle, C., Strubin, M., Mach, B., and Long, E. O. Cell surface expression of class II histocompatibility antigens occurs in the absence of the invariant chain. 1490
Sercarz, E. E. *See* Gammon, Oki, Shastri, and Sercarz.
—, *See* Shastri, Gammon, Miller, and Sercarz.
Seto, M. *See* Taguchi, Takahashi, Seto, Namikawa, Matsuyama, and Nishizuka.
Shastri, N., Gammon, G., Miller, A., and Sercarz, E. E. Ia molecule–associated selectivity in T cell recognition of a 23-amino-acid peptide of lysozyme. 882
—, *See* Gammon, Oki, Shastri, and Sercarz.
Sherwin, S. A. *See* Kurzrock, Rohde, Quesada, Gianturco, Bradley, Sherwin, and Gutterman.
Shevach, E. M. *See* Malek, Ortega, Chan, Kroczek, and Shevach.
Shih, L.-C. N. *See* Giulian, Baker, Shih, and Lachman.
Shimonkevitz, R. *See* Scholler, Shimonkevitz, MacDonald, and Kvist.
Shires, G. T. *See* Tracey, Lowry, Beutler, Cerami, Albert, and Shires.
Shlomchik, M. J., Nemazee, D. A., Sato, V. L., Van Snick, J., Carson, D. A., and Weigert, M. G. Variable region sequences of murine IgM anti-IgG monoclonal autoantibodies (rheumatoid factors). A structural explanation for the high frequency of IgM anti-IgG B cells. 407

Silberstein, L. *See* Cameron, Limjuco, Chin, Silberstein, and Schmidt.
Silvers, W. K. *See* Kimura, Desquenne-Clark, Miyamoto, and Silvers.
Siminovitch, K. A. *See* Lauzon, Siminovitch, Fulop, Phillips, and Roder.
Sison-Fonacier, L., and Bystryn, J.-C. Regional variations in antigenic properties of skin. A possible cause for disease-specific distribution of skin lesions. 2125
Siu, G., Strauss, E. C., Lai, E., and Hood, L. E. Analysis of a human V_β gene subfamily. 1600
Sklar, J. *See* Cleary, Galili, and Sklar.
Smart, J. *See* Alagon, Possani, Smart, and Schleuning.
Smith, J. A. *See* Finnegan, Smith, Smith, Berzofsky, Sachs, and Hodes.
Smith, L. J., McCulloch, E. A., and Benchimol, S. Expression of the *p53* oncogene in acute myeloblastic leukemia. 751
Smith, M. A. *See* Finnegan, Smith, Smith, Berzofsky, Sachs, and Hodes.
Snow, E. C., Fetherston, J. D., and Zimmer, S. Induction of *c-myc* protooncogene after antigen binding to hapten-specific B cells. 944
Soldau, K. *See* Tobias, Soldau, and Ulevitch.
Sorge, J. J. *See* Radoux, Chen, Sorge, and Carson.
Sorokin, R., Kimura, H., Schroder, K., Wilson, D. H., and Wilson, D. B. Cyclosporine-induced autoimmunity. Conditions for expressing the disease, requirement for intact thymus, and potency extimates of autoimmune lymphocytes in drug-treated rats. 1615
Springer, T. A. *See* Marlin, Morton, Anderson, and Springer.
Sroczynski, E. *See* Like, Biron, Weringer, Byman, Sroczynski, and Guberski.
Staiano-Coico, L. *See* Gottlieb, Lifshitz, Fu, Staiano-Coico, Wang, and Carter.
Stanley, E. R. *See* Bartocci, Pollard, and Stanley.
Starr, B. *See* Stauss, Van Waes, Fink, Starr, and Schreiber.
Starr, S. E. *See* Bandyopadhyay, Perussia, Trinchieri, Miller, and Starr.
Stauss, H. J., Van Waes, C., Fink, M. A., Starr, B., and Schreiber, H. Identification of a unique tumor antigen as rejection antigen by molecular cloning and gene transfer. 1516
Stauss, H. *See* Linsk, Vogel, Stauss, Forman, and Goodenow.
Steinman, R. M. *See* Inaba, Schuler, Witmer, Valinsky, Atassi, and Steinman.
Steward, M. W. *See* Thanavala, Brown, Howard, Roitt, and Steward.
Stollar, B. D. *See* Naparstek, André-Schwartz, Manser, Wysocki, Breitman, Stollar, Gefter, and Schwartz.
Storb, U., Pinkert, C., Arp, B., Engler, P., Gollahon, K., Manz, J., Brady, W., and Brinster, R. L. Transgenic mice with μ and κ genes encoding antiphosphorylcholine antibodies. 627
Strauss, E. C. *See* Siu, Strauss, Lai, and Hood.
Streifer, R. *See* Carroll, Lowder, Streifer, Warnke, Levy, and Levy.
Strittmatter, W., and Hitchcock, P. J. Isolation and preliminary biochemical characterization of the gonococcal H.8 antigen. 2038
Strubin, M. *See* Sekaly, Tonnelle, Strubin, Mach, and Long.
Suda, J. *See* Kajigaya, Suda, Suda, Saito, Miura, Iizuka, Kobayashi, Minato, and Sudo.
Suda, T. *See* Kajigaya, Suda, Suda, Saito, Miura, Iizuka, Kobayashi, Minato, and Sudo.
Sudo, T. *See* Kajigaya, Suda, Suda, Saito, Miura, Iizuka, Kobayashi, Minato, and Sudo.
Suemura, M. *See* Kikutani, Suemura, Owaki, Nakamura, Sato, Yamasaki, Barsumian, Hardy, and Kishimoto.
Sullivan, J. S. *See* Geczy, McGuigan, Sullivan, and Edmonds.
Sullivan, S. A. *See* Rubin, Anderson, Sullivan, Williamson, Carswell, and Old.
Suzan, M. *See* Luciani, Brunet, Suzan, Denizot, and Golstein.
Suzuki, I., Kitamura, K., Kiyono, H., Kurita, T., Green, D. R., and McGhee, J. R. Isotype-specific immunoregulation. Evidence for a distinct subset of T contrasuppressor cells for IgA responses in murine Peyer's patches. 501
Suzuki, K. *See* Liu, Okayasu, Goldman, Suzuki, Suzuki, and Wheelock.
Suzuki, R., Suzuki, S., Takahashi, T., and Kumagai, K. Production of a cytokine with interleukin 3–like properties and cytokine-dependent proliferation in human autologous mixed lymphocyte reaction. 1682
Suzuki, S. *See* Suzuki, Suzuki, Takahashi, and Kumagai.
Suzuki, Y. *See* Liu, Okayasu, Goldman, Suzuki, Suzuki, and Wheelock.
Swerlick, R. A. *See* Cunningham and Swerlick.
Sy, M.-S. *See* HayGlass, Benacerraf, and Sy.

T

Taguchi, O., Takahashi, T., Seto, M., Namikawa, R., Matsuyama, M., and Nishizuka, Y. Development of multiple organ–localized autoimmune diseases in nude mice after reconstitution of T cell function by rat fetal thymus graft. 60
Takada, S. *See* Mohagheghpour, Damle, Takada, and Engleman.
Takahashi, T. *See* Suzuki, Suzuki, Takahashi, and Kumagai.
—, *See* Taguchi, Takahashi, Seto, Namikawa, Matsuyama, and Nishizuka.
Tam, J. P. *See* Aley, Bates, Tam, and Hollingdale.
Tam, M. R. *See* Rice, Vayo, Tam, and Blake.
Thanavala, Y. M., Brown, S. E., Howard, C. R., Roitt, I. M., and Steward, M. W. A surrogate hepatitis B virus antigenic epitope represented by a synthetic peptide and an internal image antiidiotype antibody. 227
Thiele, H.-G. *See* Koch, Thiele, and Low.
Thomson, B. M., Saklatvala, J., and Chambers, T. J. Osteoblasts mediate interleukin 1 stimulation of bone resorption by rat osteoclasts. 104
Thornton, G. B. *See* Milich, McLachlan, Chisari, and Thornton.
Tidmarsh, G. F., Dailey, M. O., and Weissman, I. L. Expression of a monoclonal antibody–defined, B-lineage transformation antigen specifically identifies Abelson-diseased animals. Genetically determined resistance to Abelson murine leukemia virus acts before induction of $gp160^{6C3}$. 1356

Tilanus, M. G. J. *See* Schreuder, Tilanus, Bontrop, Bruining, Giphart, van Rood, and de Vries.
Tkacencko, V. *See* Beutler, Tkacencko, Milsark, Krochin, and Cerami.
Tobias, P. S., Soldau, K., and Ulevitch, R. J. Isolation of a lipopolysaccharide-binding acute phase reactant from rabbit serum. 777
Tonnelle, C. *See* Sekaly, Tonnelle, Strubin, Mach, and Long.
Toyonaga, B. *See* Kimura, Toyonaga, Yoshikai, Triebel, Debre, Minden, and Mak.
—, *See* Yoshikai, Kimura, Toyonaga, and Mak.
Tracey, K. J., Lowry, S. F., Beutler, B., Cerami, A., Albert, J. D., and Shires, G. T. Cachectin/tumor necrosis factor mediates changes of skeletal muscle plasma membrane potential. 1368
Transy, C. *See* Baldacci, Transy, Cochet, Penit, Israel, and Kourilsky.
Triebel, F. *See* Kimura, Toyonaga, Yoshikai, Triebel, Debre, Minden, and Mak.
Trinchieri, G., Kobayashi, M., Rosen, M., Louden, R., Murphy, M., and Perussia, B. Tumor necrosis factor and lymphotoxin induce differentiation of human myeloid cell lines in synergy with immune interferon. 1206
—, *See* Bandyopadhyay, Perussia, Trinchieri, Miller, and Starr.
—, *See* Murphy, Loudon, Kobayashi, and Trinchieri.
Tsunawaki, S., and Nathan, C. F. Macrophage deactivation. Altered kinetic properties of superoxide-producing enzyme after exposure to tumor cell–conditioned medium. 1319
Tucker, P. W. *See* Chen, Word, Dev, Uhr, Vitetta, and Tucker.
—, *See* Chen, Word, Jones, Uhr, Tucker, and Vitetta.

U

Uhr, J. W. *See* Chen, Word, Dev, Uhr, Vitetta, and Tucker.
—, *See* Chen, Word, Jones, Uhr, Tucker, and Vitetta.
—, *See* Fernandez-Botran, Krammer, Diamantstein, Uhr, and Vitetta.
Ulevitch, R. J. *See* Tobias, Soldau, and Ulevitch.
Unkeless, J. C. *See* Clarkson, Kimberly, Valinsky, Witmer, Bussel, Nachman, and Unkeless.
Urban, J. L. *See* Van Waes, Urban, Rothstein, Ward, and Schreiber.
Urdal, D. L. *See* Park, Friend, Gillis, and Urdal.

V

Vakil, M. *See* Dwyer, Vakil, and Kearney.
Valinsky, J. E. *See* Clarkson, Kimberly, Valinsky, Witmer, Bussel, Nachman, and Unkeless.
Valinsky, J. *See* Inaba, Schuler, Witmer, Valinsky, Atassi, and Steinman.
van Rood, J. J. *See* Schreuder, Tilanus, Bontrop, Bruining, Giphart, van Rood, and de Vries.
Van Snick, J. *See* Shlomchik, Nemazee, Sato, Van Snick, Carson, and Weigert.
Van Waes, C., Urban, J. L., Rothstein, J. L., Ward, P. L., and Schreiber, H. Highly malignant tumor variant retain tumor-specific antigens recognized by T helper cells. 1547
—, *See* Stauss, Van Waes, Fink, Starr, and Schreiber.
Vassalli, J.-D. *See* Collart, Belin, Vassalli, de Kossodo, and Vassalli.
Vassalli, P. *See* Collart, Belin, Vassalli, de Kossodo, and Vassalli.
Vayo, H. E. *See* Rice, Vayo, Tam, and Blake.
Venkatesan, S. *See* Folks, Powell, Lightfoote, Koenig, Fauci, Benn, Rabson, Daugherty, Gendelman, Hoggan, Venkatesan, and Martin.
Victor-Kobrin, C. *See* Gascoigne, Waters, Elliott, Victor-Kobrin, Goodnow, Davis, and Bona.
Vitetta, E. S. *See* Chen, Word, Dev, Uhr, Vitetta, and Tucker.
—, *See* Chen, Word, Jones, Uhr, Tucker, and Vitetta.
—, *See* Fernandez-Botran, Krammer, Diamantstein, Uhr, and Vitetta.
Vlassara, H., Brownlee, M., and Cerami, A. Novel macrophage receptor for glucose-modified proteins is distinct from previously described scavenger receptors. 1301
Vogel, J. *See* Linsk, Vogel, Stauss, Forman, and Goodenow.

W

Wake, K. *See* Ikuta, Hattori, Wake, Kano, Honjo, Yodoi, and Minato.
Wang, C. Y. *See* Bushkin, Posnett, Pernis, and Wang.
—, *See* Gottlieb, Lifshitz, Fu, Staiano-Coico, Wang, and Carter.
Ward, P. L. *See* Van Waes, Urban, Rothstein, Ward, and Schreiber.
Warnke, R. *See* Carroll, Lowder, Streifer, Warnke, Levy, and Levy.
Waters, S. *See* Gascoigne, Waters, Elliott, Victor-Kobrin, Goodnow, Davis, and Bona.
Weigert, M. G. *See* Shlomchik, Nemazee, Sato, Van Snick, Carson, and Weigert.
Weinreb, H. *See* Lyons, Amador, Petito, Nagashima, Weinreb, and Zabriskie.
Weis, J. H. *See* Wilson, Murphy, Wong, Klickstein, Weis, and Fearon.
—, *See* Wong, Kennedy, Bonaccio, Wilson, Klickstein, Weis, and Fearon.
Weissman, I. L. *See* Haars, Kronenberg, Gallatin, Weissman, Owen, and Hood.
—, *See* Tidmarsh, Dailey, and Weissman.
Weksler, M. E. *See* Hariri, Alonso, Hajjar, Coletti, and Weksler.
—, *See* Kennedy, Russo, Kim, and Weksler.
Welsh, R. M. *See* McIntyre and Welsh.
Weringer, E. J. *See* Like, Biron, Weringer, Byman, Sroczynski, and Guberski.
Weyand, C. M. *See* Goronzy, Weyand, and Fathman.
Wheelock, E. F. *See* Liu, Okayasu, Goldman, Suzuki, Suzuki, and Wheelock.
Wieczorek, R. *See* Pelicci, Knowles, Arlin, Wieczorek, Luciw, Dina, Basilico, and Dalla-Favera.
Williams, C. L., and Lennon, V. A. Thymic B lymphocyte clones from patients with myasthenia gravis secrete monoclonal striational autoantibodies reacting with myosin, α actinin, or actin. 1043
Williamson, B. D. *See* Rubin, Anderson, Sullivan, Williamson, Carswell, and Old.

Wilson, D. B. *See* Sorokin, Kimura, Schroder, Wilson, and Wilson.

Wilson, D. H. *See* Sorokin, Kimura, Schroder, Wilson, and Wilson.

Wilson, J. G., Murphy, E. E., Wong, W. W., Klickstein, L. B., Weis, J. H., and Fearon, D. T. Identification of a restriction fragment length polymorphism by a CR1 cDNA that correlates with the number of CR1 on erythrocytes. 50

—, *See* Wong, Kennedy, Bonaccio, Wilson, Klickstein, Weis, and Fearon.

Witmer, M. D. *See* Clarkson, Kimberly, Valinsky, Witmer, Bussel, Nachman, and Unkeless.

—, *See* Inaba, Schuler, Witmer, Valinsky, Atassi, and Steinman.

Wong, W. W., Kennedy, C. A., Bonaccio, E. T., Wilson, J. G., Klickstein, L. B., Weis, J. H., and Fearon, D. T. Analysis of multiple restriction fragment length polymorphisms of the gene for the human complement receptor type I. Duplication of genomic sequences occurs in association with a high molecular weight receptor allotype. 1531

—, *See* Wilson, Murphy, Wong, Klickstein, Weis, and Fearon.

Woods, V. L., Jr. *See* Pischel, Bluestein, and Woods.

Word, C. *See* Chen, Word, Dev, Uhr, Vitetta, and Tucker.

—, *See* Chen, Word, Jones, Uhr, Tucker, and Vitetta.

Wozencraft, A. O., Sayers, G., and Blackwell, J. M. Macrophage type 3 complement receptors mediate serum-independent binding of *Leishmania donovani*. Detection of macrophage-derived complement on the parasite surface by immunoelectron microscopy. 1332

Wright, G. G., and Mandell, G. L. Anthrax toxin blocks priming of neutrophils by lipopolysaccharide and by muramyl dipeptide. 1700

Wright, S. D., and Jong, M. T. C. Adhesion-promoting receptors on human macrophages recognize *Escherichia coli* by binding to lipopolysaccharide. 1876

—, *See* Aderem, Cohen, Wright, and Cohn.

Wysocki, L. J. *See* Naparstek, André-Schwartz, Manser, Wysocki, Breitman, Stollar, Gefter, and Schwartz.

Y

Yamagata, H. *See* Mamula, Fox, Yamagata, and Harley.

Yamasaki, K. *See* Kikutani, Suemura, Owaki, Nakamura, Sato, Yamasaki, Barsumian, Hardy, and Kishimoto.

Yang, Y. *See* Kabat, Nickerson, Liao, Grossbard, Osserman, Glickman, Chess, Robbins, Schneerson, and Yang.

Yodoi, J. *See* Ikuta, Hattori, Wake, Kano, Honjo, Yodoi, and Minato.

York-Jolley, J. *See* Cease, Berkower, York-Jolley, and Berzofsky.

—, *See* Cease, Buckenmeyer, Berkower, York-Jolley, and Berzofsky.

Yoshikai, Y., Kimura, N., Toyonaga, B., and Mak, T. W. Sequences and repertoire of human T cell receptor α chain variable region genes in mature T lymphocytes. 90

—, *See* Kimura, Toyonaga, Yoshikai, Triebel, Debre, Minden, and Mak.

Young, J. D.-E, Liu, C.-C., Leong, L. G., and Cohn, Z. A. The pore-forming protein (perforin) of cytolytic T lymphocytes is immunologically related to the components of membrane attack complex of complement through cysteine-rich domains. 2077

—, **Podack, E. R., and Cohn, Z. A.** Properties of a purified pore-forming protein (perforin 1) isolated from H-2-restricted cytotoxic T cell granules. 144

—, *See* Liu, Perussia, Cohn, and Young.

Z

Zabriskie, J. B. *See* Lyons, Amador, Petito, Nagashima, Weinreb, and Zabriskie.

—, *See* Ridge, Zabriskie, Osawa, Diamantstein, Oronsky, and Kerwar.

Zimmer, S. *See* Snow, Fetherston, and Zimmer.

Zinkernagel, R. M., Haenseler, E., Leist, T., Cerny, A., Hengartner, H., and Althage, A. T cell–mediated hepatitis in mice infected with lymphocytic choriomeningitis virus. Liver cell destruction by H-2 class I–restricted virus-specific cytotoxic T cells as a physiological correlate of the ^{51}Cr-release assay? 1075